

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

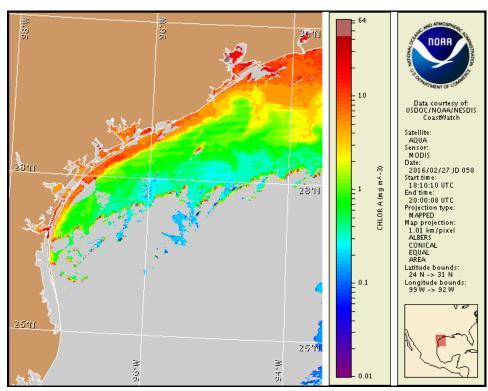
Monday, 29 February 2016

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, February 22, 2016



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from February 19 to 26: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

Conditions Report

Karenia brevis (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected Monday, February 29 through Monday, March 7.

Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

Analysis

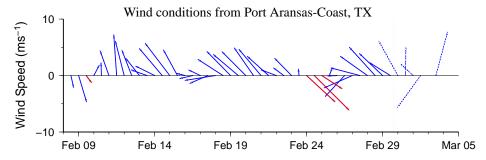
Sampling from the Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, indicates that *Karenia brevis* ranges between 'not present' and 'background' concentrations (TAMU; 2/22-2/29). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery (2/27, shown left), is partially obscured by clouds alongand offshore the Texas coast from approximately Port Mansfield to the Rio Grande, limiting analysis in this region. Elevated to high chlorophyll (2-12 μ g/L) is visible in patches from Sabine Pass to the Port Mansfield. Elevated chlorophyll is not indicative of the presence of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 30 km south from the Port Aransas region from February 28 to March 3.

Lalime, Derner

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive: http://tidesandcurrents.noaa.gov/hab/bulletins.html

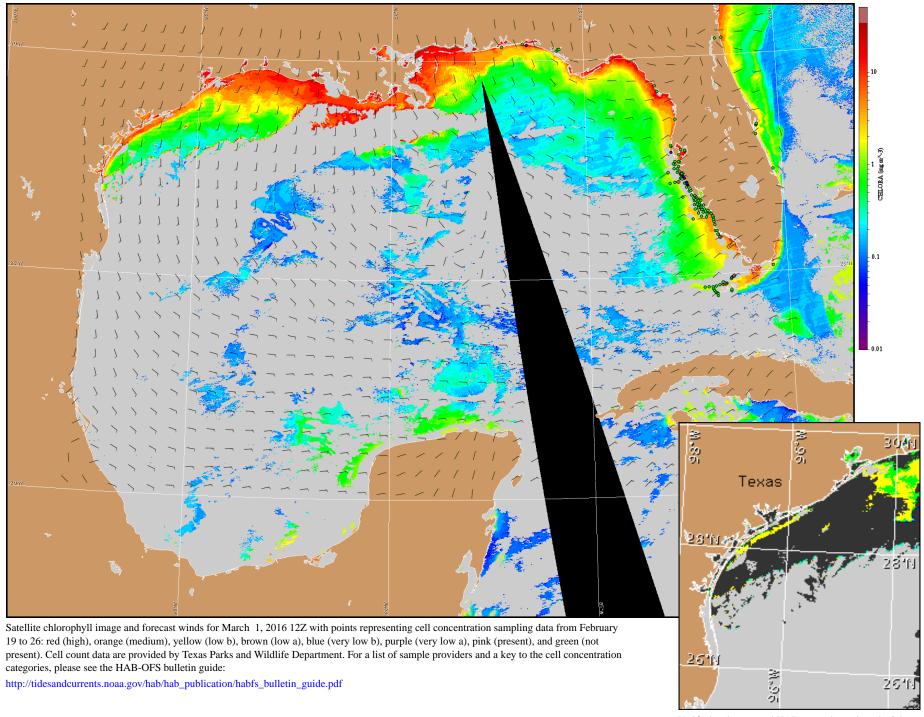


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

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Wind Analysis

Port Aransas to Baffin Bay: Southeast winds (5-15kn, 3-8m/s) today becoming south (5-15kn) tonight through Tuesday. East to northeast winds (10-25kn, 5-13m/s) Tuesday night through Wednesday. Southeast winds (10-15kn, 5-8m/s) Wednesday night becoming south (10-20kn, 5-10m/s) Thursday. East winds (5-10kn) Thursday night. Northeast winds (10-15kn) Friday shifting east in the afternoon and southeast (10kn, 5m/s) Friday night.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).